U.S. Patent Application Serial No. 09/492,373

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diameter ranging from 0.01 through 2 μ m obtained from a radical polymeric monomer composition consisting essentially of:

6

(a) 20 through 99 wt% of styrene;

7

(b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and

8

(c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric

9

monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-

10

trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;

11

a colorant; and

12

a solvent that is liquid at room temperature.

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14. (Four Times Amended) Ink comprising:

2

a copolymer particle that has a glass transition point less than or equal to 45 °C, a softening point

3

measured by a flow tester ranging from 40 through 150°C and a volume average particle diameter ranging

4

from 0.01 through 2 μ m obtained from a radical polymeric monomer composition consisting essentially of:

5

(a) 20 through 99 wt% of styrene;

6

(b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and

7

(c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric

8

monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-

9

trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;

10

a colorant; and



a solvent that is liquid at room temperature.

B	16. (Four Times Amended) An ink cartridge including a case and ink which is stored n said case
2	and comprises:
3	a copolymer particle that has a glass transition point less than or equal to 45 °C, a softening point
4	measured by a flow tester ranging from 40 through 150°C and a volume average particle diameter ranging
5	from 0.01 through 2 μ m obtained from a radical polymeric monomer composition consisting essentially of:
6	(a) 20 through 99 wt% of styrene; and
7	(b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and
8	(c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
9	monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
10	trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;
11	a colorant; and
12	a solvent that is liquid at room temperature.

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3	17. (Four Times Amended) A recording device including a head and an ink cartridge supplying
ONE !	ink to said head, wherein said ink comprises:
3	a copolymer particle that has a glass transition point less than or equal to 45 °C, a softening point
4	measured by a flow tester ranging from 40 through 150°C and a volume average particle diameter ranging
5	from 0.01 through 2 μ m obtained from a radical polymeric monomer composition consisting essentially of:
6	(a) 20 through 99 wt% of styrene; and
7	(b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and
8	(c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
9	monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
10	trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;
11	a colorant; and
12	a solvent that is liquid at room temperature.